





-  CLASS 1 BALLAST FOR MAIN TRACK (OLD "D")
-  CLASS 2 BALLAST FOR SECONDARY MAIN, BRANCH AND YARD TRACK (OLD "C")
-  CLASS 3 BALLAST SCREENINGS FOR SIGNAL MOUNDS, ETC..
-  SELECT MATERIAL (SUBBALLAST - SEE NOTE)

AREMA STD	4A	5	57	SUB BALLAST
UP BALLAST CLASS	1	2	3	
SQUARE OPENING	2"-3/4"	1"-3/8"	3/4"-0"	1 1/2"-0"
2 1/2"	100			
2"	90-100			100
1 3/4"				
1 1/2"	60-90			
1 1/4"		100		
1"	10-35	90-100	100	90-100
3/4"	0-10	40-75	90-100	
1/2"		15-35	20-55	
3/8"	0-3	0-15	0-10	50-84
No. 4		0-5	0-5	
No. 8			0-1	
No. 10				26-50
No. 40				12-30
No. 200	0-5	0-5	0-1	0-10

PERCENT PASSING (BY WEIGHT)
[ALL AGGREGATE SAMPLING AND TESTING PER
ASTM LATEST REVISION.]

NOTES:

- IF SUBBALLAST IS NOT USED IN LOCATIONS WHERE POOR NATIVE SOIL CONDITIONS EXIST, SELECT MATERIAL MUST BE APPROVED BY CHIEF ENGINEER PRIOR TO USE.
- CLASS 1 AND CLASS 2 BALLAST MATERIALS ARE REQUIRED TO BE WASHED PRIOR TO LOADING.



UNION PACIFIC RAILROAD
Office of Chief Engineer Design

INDUSTRY STANDARDS

**BALLAST GRADATION
TABLE**

ADOPTED MAY 1, 1987
REVISED AUG 4, 2003
FILE NO: EXHIBIT H-1

EXHIBIT
"H-1"

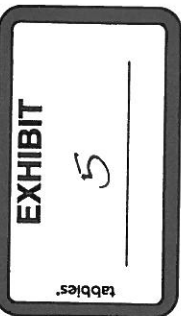


EXHIBIT
"H-1"